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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/941,485	08/28/2001	Mikko Veikkolainen	AWEK 2301	6235	•
7812	7590 04/09/2003				
SMITH-HILL AND BEDELL			EXAMINER]
SUITE 104	ARNES ROAD		SHAW, CLIFFORD C		•
PORTLAND,	OK 97229		ART UNIT	PAPER NUMBER	1/0
			1725		
			DATE MAILED: 04/09/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)
•		Applicant(s)
Office Action Summary	09/941,485	VEIKKOLAINEN ET AL.
	Examiner	Art Unit
The MAILING DATE of this communication app	Clifford C Shaw	h the correspondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY		
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	y within the statutory minimum of thirty will apply and will expire SIX (6) MONT	(30) days will be considered timely. THS from the mailing date of this communication.
1)⊠ Responsive to communication(s) filed on <u>12 F</u>	February 2003	
	is action is non-final.	
3) Since this application is in condition for allowa		ore proceeding so to the models
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D	o. 11, 453 O.G. 213.
4) Claim(s) 1-24 is/are pending in the application) .	
4a) Of the above claim(s) is/are withdraw	wn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-24</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/or	r election requirement.	
Application Papers		•
9)☐ The specification is objected to by the Examine	r.	
10)☐ The drawing(s) filed on is/are: a)☐ accep	oted or b)□ objected to by th	e Examiner.
Applicant may not request that any objection to the	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).
11) ☐ The proposed drawing correction filed on	_is: a)□ approved b)□ dis	sapproved by the Examiner.
If approved, corrected drawings are required in rep		
12) The oath or declaration is objected to by the Exa	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
 Certified copies of the priority documents 	s have been received.	
2. Certified copies of the priority documents	s have been received in Ap	plication No
3. Copies of the certified copies of the prior application from the International Bur* See the attached detailed Office action for a list of the certified copies of the prior application.	reau (PCT Rule 17.2(a)).	-
14) Acknowledgment is made of a claim for domestic		
a) The translation of the foreign language pro- 15) Acknowledgment is made of a claim for domestic	visional application has bee	en received.
Attachment(s)	- printing and or orong, g	. 120 and 01 121.
1) X Notice of References Cited (PTO-892)	4) Interview Su	ımmary (PTO-413) Paper No(s)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 9.	5) Notice of Inf	formal Patent Application (PTO-152)
S. Patent and Trademark Office TO-326 (Rev. 04-01) Office Act	tion Summary	Part of Paper No. 10

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Detailed Action

1.) The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2.) Claims 1-4, 7-17, 20, 21, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilliland (5,999,642, cited by applicant) taken with Gilliland et al (5,798,627). The patent to Gilliland (5,999,642, cited by applicant) discloses a method and arrangement for forming a welding structure whereby an extended image of the arrangement of constituent pieces is recorded, plural weld points are determined from this image, and welding is carried out (see figures 1, 2, and 3 and the discussion at cols. 7-10). The claims differ from Gilliland (5,999,642, cited by applicant) in calling for controlling the welding apparatus on the basis of determined positions of the weld points. This difference does not distinguish over the prior art. At the time applicant's invention was made, it would have been obvious to have used the welding arrangement of Gilliland et al in the system of Gilliland (5,999,642, cited by applicant), based on the discussion at col. 9, lines 38-42 in Gilliland (5,999,642, cited by applicant). At his column 29, line 45 through column 31, line 50, Gilliland et al discusses control of the weld apparatus, especially the torch angle, based on the welding location. It would have been obvious to have carried this teaching of Gilliland et al over to Gilliland (5,999,642, cited by applicant) when the system of Gilliland et al was incorporated into Gilliland (5,999,642, cited by applicant), the

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motivation being to secure the advantages of the teaching for the arrangment of Gilliland (5,999,642, cited by applicant), there by satisfying the claims.

- 3.) Claims 5, 6, 18, 19, and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gilliland (5,999,642, cited by applicant) taken with Gilliland et al as applied to claims 1-4, 7-17, 20, and 21 above, and further in view of Omae et al (4,144,992). The only aspect of the claims to which the rejection above does not apply are the provisions for displaying weld point positions to a user and for overriding automatic control of the welding. These differences do not patentably distinguish over the prior art. It would have been obvious to have provided the system of Gilliland (5,999,642, cited by applicant) with an arrangement for displaying the welding area, the motivation being the teachings of Omae et al that it is advantageous to have such a display in an automated weld system (see figure 1, element 1, figure 5, and col. 9, lines 14-20 in Omae et al). It would have been obvious to have provided the system of Gilliland (5,999,642, cited by applicant) with a manual override as claimed, the motivation being the teachings of Omae et al that such is advantageous (see figure 7, element 406 and the discussion at col. 8, line 62 through col. 9, line 13 in Omae et al).
- 4.) Applicant's remarks in his amendment filed on 2/12/2003 have been given careful consideration, but are not persuasive of patentability. Applicant's claim language calling for an "extended" image does not distinguish over the Gilliland '642 patent. This patent produces a "picture" of the workpiece (see the discussion in column 2 of '642) that is "extended" in the sense that a pictorial representation of a large area of the workpiece is made. In regard to claim

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24 which calls of a "photographically" recorded extended image, the term "photographically" is broad enough to read on any electronic imaging, such as that of the '642 patent. For applicant's information, a dictionary definition of the word <u>photography</u> is attached. The breadth of the word is suggested by its use in common terminology such as "digital photography" which uses entirely electronic imaging means.

5.) THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Clifford C Shaw at telephone number 703-308-1712. The examiner can normally be reached on Monday through Friday of the first week of the pay period and on Tuesday through Friday of the second week of the pay period.

Clifford C Shaw Primary Examiner Art Unit 1725

April 7, 2003